



# **Functional Independence Science**

**Official Released Items**

## **Grade 8**

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**Fall 2007  
Official Released Items**

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*The Grade 8 Functional Independence Science Assessment* was administered for the first time in Fall 2007. Beginning with this administration, the Office of Educational Assessment and Accountability (OEAA) will annually release a portion of the items that are administered on the assessment. This booklet contains released items from the Fall 2007 administration and is intended to be used by districts to assist in their interpretation of item analysis data. The information contained in this booklet may also be used by schools, teachers, and parents as a resource for understanding the content and format of the assessment items. In addition to MI-Access training materials and Extended Benchmarks (EB), the released items may also have utility in informing decisions related to instruction, curriculum, and assessment. These items are **not** secure and may be copied and distributed as needed.

The table below lists the number of core and released items administered on the Fall 2007 Grade 8 Functional Independence Science Assessment. Core items are those that count toward students' scores. All released items in this booklet were selected from the pool of core items that appeared on the assessment.

**Functional Independence Science Grade 8**

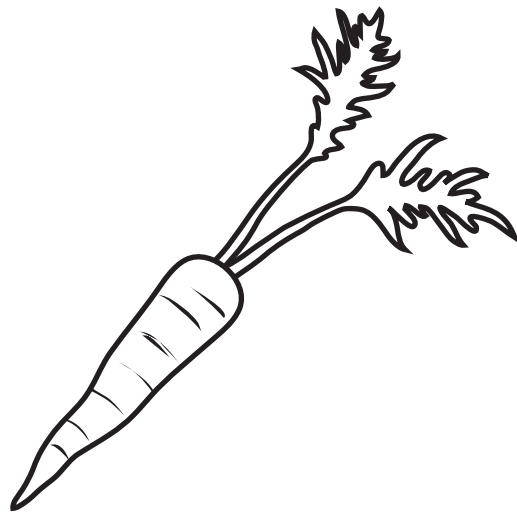
<b>Science Strand</b>	<b>Number of Core Items</b>
Life	14
Physical	14
Earth	8
Constructing	2
Reflecting	2
<b>Total Core Items/Points</b>	<b>40</b>
<b>Released Items</b>	<b>6</b> <b>(Numbers vary by strand and topic.)</b>

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**DIRECTIONS:** Read each question. Choose the **BEST** answer for each question.

Use the picture below to answer question **R1**.



**carrot**

**R1** What part of this plant is **usually** eaten?

- A** leaves
- B** stems
- C** root

**R2** What is the relationship of a bird to a worm?

- A** The bird is the predator of the worm.
- B** The bird is the prey of the worm.
- C** The bird and the worm help each other.

**R3** Stan replaced the batteries in a radio.

The radio still does not work.

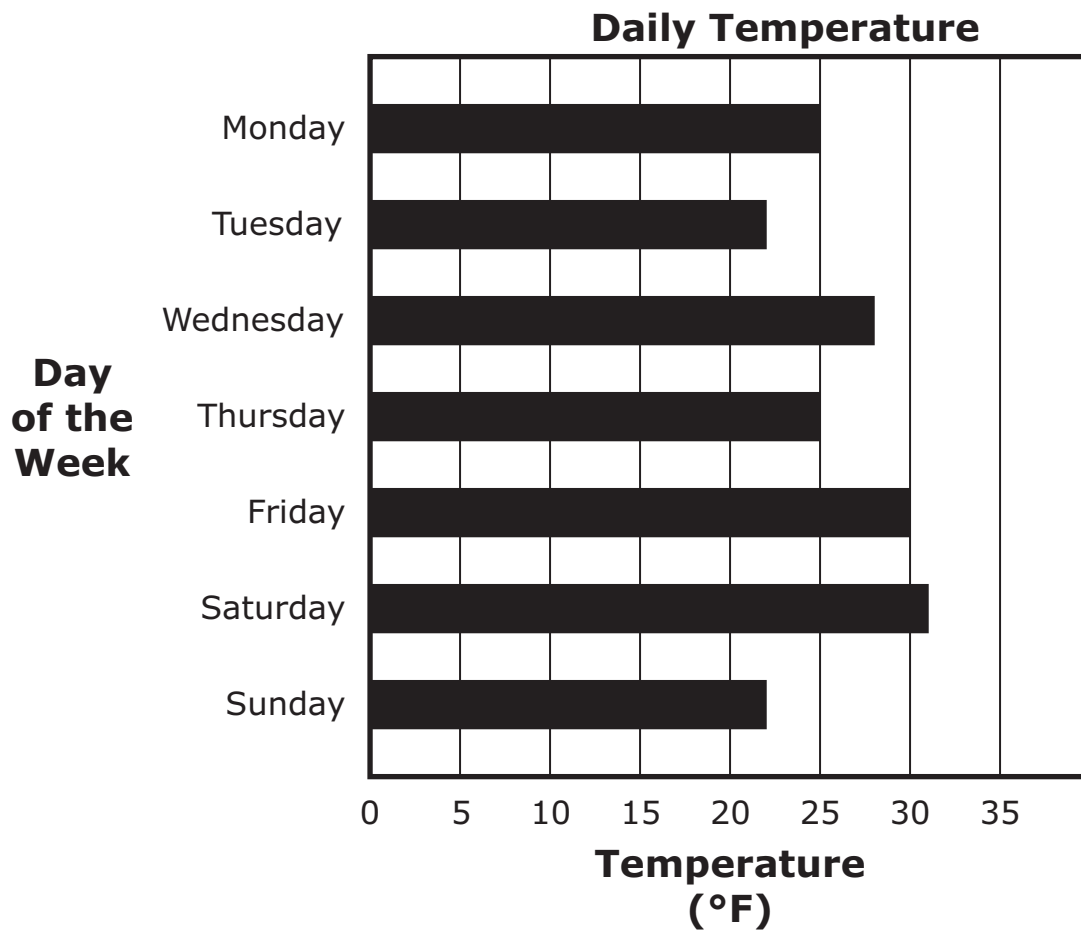
What information should Stan look at **next**?

- A** the picture of how to place the batteries
- B** the brand of the appliance
- C** the brand of the batteries

**R4** What is an example of a chemical change?

- A** a nail being hammered
- B** a nail rusting
- C** a nail being cut in half

Use the bar graph below to answer question **R5**.



**R5** What type of clothing should be worn during the week shown in the graph?

- A** shorts and T-shirt
- B** gloves and winter coat
- C** spring coat and pants

**R6** What is the effect of Earth spinning on its axis?

- A** sun and moon
- B** night and day
- C** summer and winter



**Do Not Continue.**





**Do not continue until instructed to do so.**



Below is a list of the Extended Benchmarks (EB) for each released item found in this booklet. The chart contains the EB code, a brief description of what is measured, and the correct answer for each released item.

Full descriptions of the EB contained in the chart below are available for review and download at **[www.mi.gov/mi-access](http://www.mi.gov/mi-access)**.

<b>Science</b>			
<b>Released Item Number</b>	<b>EB Code</b>	<b>STRAND or Abbreviated Descriptor/Scoring Focus</b>	<b>Answer Key</b>
		<b>LIFE</b>	
R1	L.OR.FI.EB.III.2.m.3a	Explain where the plants make and store food.	<b>C</b>
R2	L.EC.FI.EB.III.5.m.1a	Describe common patterns of relationships among populations.	<b>A</b>
		<b>PHYSICAL</b>	
R3	P.ME.FI.EB.IV.1.m.6a	Investigate electrical devices, using instructions and appropriate safety.	<b>A</b>
R4	P.CM.FI.EB.IV.2.m.2a	Describe common chemical changes in terms of properties of reactants and products.	<b>B</b>
		<b>EARTH</b>	
R5	E.AW.FI.EB.V.3.m.1a	Interpret temperature, precipitation, and cloud cover information.	<b>B</b>
R6	E.SS.FI.EB.V.4.m.1a	Compare and contrast characteristics of the earth and other plants.	<b>B</b>



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